SEP 2 7 2004

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Cor	mplete if Known	•
Application Number	10/766,534	
Filing Date	January 28, 2004	
First Named Inventor	Ying, et al.	·
Art Unit	2661	
Examiner Name	Unknown	
Attorney Docket Number	1033-LB1004	

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
145	AA	Number-Kind Code <sup>2 (# known)</sup> US- 6,477,238 B1	11-05-2002	Schneider, et al.	
1	BB	<sup>US-</sup> 6,498,791 B2	12-24-2002	Pickett, et al.	
	CC	US- 6,532,277 B2	03-11-2003	Ulanskas, et al.	
	DD	<sup>US-</sup> 6,507,606 B2	01-14-2003	Shenoi, et al.	
	EE	<sup>US-</sup> 6,538,451 B1	03-25-2003	Galli, et al.	
	FF	US- 6,724,859 B1	04-20-2004	Galli	
	GG	US- 6,731,678 B1	05-04-2004	White, et al.	
	НН	US- 6,697,768 B2	02-24-2004	Jones, et al.	<u> </u>
	11	<sup>US-</sup> 6,549,568 B1	04-15-2003	Bingel	
	JJ	US- 6,625,255 B1	09-23-2003	Green, et al.	
	KK	US- 6,643,266 B1	11-04-2003	Pugaczewski	
1	LL	<sup>US-</sup> 6,668,041 B2	12-23-2003	Kamali, et al.	
	ММ	US- 6,782,082 B2	08-24-2004	Rahamim	
1	NN	US- 6,728,238 B1	04-27-2004	Long, et al.	
	00	US- 6,640,239 B1	10-28-2003	Gidwani	
	PP	US- 6,597,689 B1	07-22-2003	Chiu, et al.	<u> </u>
	QQ	US- 6,466,088 B1	10-15-2002	Rezvani, et al.	
	RR	<sup>US-</sup> 6,769,000 B1	07-27-2004	Akhtar, et al.	
CAS	SS	US- 6,769,024 B1	07-27-2004	Natarajan, et al.	

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Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	+0
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NO. 749 P. 6/6

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	stitute for form 1449/PTO			mplete if Known	
			Application Number	10/766,534	
IN	ECOMATIC	N DISCLOSURE	Filing Oate	January 28, 2004	
		<del></del>	First Named Inventor	Goangshiuan Shawn Ying	
5		BY APPLICANT	Art Unit	2616	
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Sheet	1	of 1	Altorney Docket Number	1033-LB1004	

			U.S. PATEN	DOCUMENTS	
Examiner Initials	No.1	Document Number  Number-Kind Code <sup>2 (Floore)</sup>	Publication Date MM-OD-YYYY	Name of Patentee or Applicant of Cited Document	Pagea, Columns, Lines, Where Relevant Passages or Relevan Figures Appear
CN	Al	US- 2005/0002335 A1	01-06-2005	Adamczyk, et al.	
745	Bl	<sup>US-</sup> 2005/0152370 A1	07-14-2005	Meehan, et al.	
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			t of 1995, no persons an	e required to respond to a collection	of Information unless it contains a valid OMB control number.  Complete if Known
Substitute for form 1449/PTO				Application Number	10/766,534
INFO	ORMATIO	N DIS	CLOSURE	Filing Date	January 28, 2004
			PPLICANT	First Named Inventor	Ying, et al.
				Art Unit	2661
	(Use as many :	sheets as n	ecessary)	Examiner Name	Unknown
Sheet	4	of	4	Attorney Docket Number	1033-LB1004

		NON PATENT LITERATURE DOCUMENTS	·
Examiner Initials*	Cite Nó.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup> .
CHS	CA	INTERNATIONAL TELECOMMUNICATION UNION, "Series G:Transmission Systems and Media, Digital Systems and Networks. Digital Sections and Digital Line System-Access Networks. Asymetric Digital Subscriber Line (ADSL) Transceivers- 2(ADSL2)," G.992.3, ITU-T. July 2002, pages 1-127.	
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Şub	stitute for form 1449/PTO	Application Number	10/766,534	
		Filing Date	January 28, 2004	
INFORMATION DISCLOSURE		First Named Inventor	Ying, et al.	
S	TATEMENT BY APPLICANT	Art Unit	2661	
_	(Use as many sheets as necessary)	Examiner Name	Unknown	
Sheet	3 of 4	Attorney Docket Number	1033-LB1004	

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
2/15		Number-Kind Code <sup>2 (# known)</sup>	20.40.0004	Warran et el	
<u> (H)</u>	BA	<sup>US-</sup> 6,775,273 B1	08-10-2004	Kung, et al.	
	BC	<sup>US-</sup> 6,775,267 B1	08-10-2004	Kung, et al.	
	BD	<sup>US-</sup> 5,751,338	05-12-1998	Ludwig, Jr.	
	BE	<sup>US-</sup> 5,974,139	10-26-1999	McNamara, et al.	
	BF	<sup>US-</sup> 5,987,061	11-16-1999	Chen	
	BG	<sup>US-</sup> 6,044,107	03-28-2000	Gatherer, et al.	<u></u>
	ВН	US- 6,055,268	04-25-2000	Timm, et al.	
	ВІ	US- 6,700,927 B1	03-02-2004	Esliger, et al.	
	BJ	US- 6,658,052 B2	12-02-2003	Krinsky, et al.	
	ВК	US- 6,614,781 B1	09-02-2003	Elliott, et al.	
	BL	<sup>US-</sup> 6,467,092 B1	10-15-2002	Geile, et al.	
	ВМ	<sup>US-</sup> 6,317,495 B1	11-13-2001	Gaikwad, et al.	
	BN	US- 6,424,657 B1	07-23-2002	Voit, et al.	
	во	US- 6,081,291	06-27-2000	Ludwig, Jr.	
1	BP	US- 6,292,559 B1	09-18-2001	Gaikwad, et al.	
THE	BQ	US- 2004/0095921 A1	05-20-2004	Kerpez	
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		FOREIG	<b>SN PATENT DOCU</b>	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	<b>⊤</b> 6
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7/5	AB	US- 6,765,864 B1	07-20-2004	Natarajan, et al.	
-1-	AC	<sup>US-</sup> 6,751,662 B1	06-15-2004	Nararajan, et al.	
	AD	US- 6,735,601 B1	05-11-2004	Subrahmanyam	,
	AE	<sup>US-</sup> 6,771,673 B1	08-03-2004	Baum, et al.	
	AF	US- 6,765,918 B1	07-20-2004	Dixon, et al.	
	AG	US- 6,763,025 B2	07-13-2004	Leatherbury, et al.	
1	АН	US- 6,762,992 B1	07-13-2004	Lemieux	
	Al	US- 6,775,232 B1	08-10-2004	Ah Sue, et al.	
	AJ	<sup>US-</sup> 6,775,268 B1	08-10-2004	Wang, et al.	
1	AK	US- 6,778,525 B1	08-17-2004	Baum, et al.	
	AL	US- 6,751,315 B1	06-15-2004	Liu, et al.	
	АМ	<sup>US-</sup> 6,754,283 B1	06-22-2004	Li	
	AN	<sup>US-</sup> 6,751,218 B1	06-15-2004	Hagirahim, et al.	
$\neg$	AO	US- 6,667,971 B1	12-23-2003	Modarressi, et al.	
	AP	US- 6,674,725 B2	01-06-2004	Nabkel, et al.	
	AQ	US- 6,674,749 B1	01-06-2004	Mattathil	
1	AR	US- 6,680,940 B1	01-20-2004	Lewin, et al.	
.)	AS	<sup>US-</sup> 6,608,835 B2	08-19-2003	Geile, et al.	
A	AT	<sup>US-</sup> 6,570,855 B1	05-27-2003	Kung, et al.	

		FORE	GN PATENT DOCU	MENTS		
Examiner Initials*	Cite No.	- A 17 - A7	Publication	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
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